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XX. *Extract of a Register of the Barometer, Thermometer, and Rain, at Lyndon, in Rutland, 1775. By Thomas Barker, Esquire. Communicated by Sir John Pringle, Bart. P. R. S.*

R. June 27, 1776.

		Barometer.			Thermometer.						Rain.
		Higheft	Lowest.	Mean.	In the Houſe.			Abroad.			
					High.	Low.	Mean	High.	Low.	Mean	
Jan.	Morn.	29,91	28,72	29,33	47	30	40½	50	20	36½	1,973
	Aftern.				48	31	41½	52½	26	41	
Feb.	Morn.	29,91	28,35	29,24	48	39½	44	49	31½	39	2,522
	Aftern.				49	41	45	51½	36	46	
Mar.	Morn.	30,09	28,61	29,32	48	38	44	46½	28	36½	1,728
	Aftern.				49½	39½	45	54	34	46½	
Apr.	Morn.	29,97	29,05	29,60	64½	40½	49	55	36	44	1,035
	Aftern.				67	42½	51	80	47	55½	
May	Morn.	29,94	29,31	29,67	62	49½	55½	58½	36	49	0,900
	Aftern.				64	50½	57	73	53	61	
June	Morn.	29,87	29,17	29,49	66½	58	62	62	50	56	0,887
	Aftern.				68	59	64	78	59	69½	
July	Morn.	29,71	29,16	29,41	66½	58½	63	63	52	58	4,078
	Aftern.				68	60	64½	78	58½	70	
Aug.	Morn.	29,60	28,98	29,37	65	58½	62	61	48½	54½	4,760
	Aftern.				66	60	63	72	53	65	
Sept.	Morn.	29,67	29,02	29,31	64½	55½	60	60	45½	52½	5,670
	Aftern.				65½	56½	61	71	53	63	
Oct.	Morn.	29,80	28,50	29,38	59½	43½	51½	57½	30	43	3,480
	Aftern.				59½	45	52½	65	39	52	
Nov.	Morn.	29,96	28,50	29,34	48	39	42½	52	26½	36	3,570
	Aftern.				50	39	43	56	34	41½	
Dec.	Morn.	30,06	28,15	29,54	51	35½	42	52	24½	35	1,096
	Aftern.				51½	35½	42	55½	32	40	
											31,699

In four years, 1740, 41, 42, and 43, there came but in. 66,361 of rain. In the last four years 1772, 73, 74, in. and 75, there was 124,957, which is nearly twice as much.

The proportion that the mean months bear to the whole years at several periods.

	1736-40	41-50	51-60	61-70	71-75	36-75
January	.054	.076	.078	.069	.070	.073
February	.051	.046	.052	.074	.073	.061
March	.047	.074	.066	.049	.058	.061
April	.057	.075	.086	.056	.035	.065
May	.075	.064	.073	.071	.094	.074
June	.075	.123	.097	.112	.079	.101
July	.139	.111	.134	.107	.072	.111
August	.163	.059	.122	.099	.111	.105
September	.113	.095	.062	.074	.156	.092
October	.081	.094	.071	.115	.102	.093
November	.052	.105	.073	.100	.084	.086
December	.093	.078	.086	.074	.066	.078
	1.000	1.000	1.000	1.000	1.000	1.000

The year began favourable, the winter was mild and not in general wet; there was indeed a pretty deal of rain the first half of February, but the latter part of that month was warm and forwarding, and the spring continued to advance from that time with much fewer frosty mornings and N.E. winds than there frequently

are at that season, the many strong Westerly winds keeping them back. The seed-time was fine, and the season good for corn. There were Northerly winds the former part of April, but they were not sharp ones; and the latter part of the month was hot, some days more so than in the height of summer.

The former part of the summer was fine, hot, and dry; some stony parishes burnt a good deal, especially where the grounds were hard-stocked, and the crop of hay was but was small; yet in general the grass had got so forward in spring that it held out pretty well. There was a great deal of fine weather this year; and though there was a great deal of rain in the latter part of the summer, so much fine weather was intermixed with it that most of the hay and harvest were got in well. These rains began the beginning of July, were considerable but not frequent at first, came oftener toward the end of it and in August, and were almost continual the first three weeks of September, with several thunder-storms. What harvest was still out, which in this country was chiefly pease and beans, was much spoiled; but in the fens and several other countries a good of barley was not finished. The latter end of September and beginning of October were fine, and finished the harvest; but the rains returned again, and continued to the end of November, yet in less quantities than before, and the wheat seed-time was pretty good. The end of the year was fine and in general dry; at first warm, and afterward frequent frosty mornings, but no settled frost. The dry weather
5 before

before Midsummer suited the wheat and barley, which were this year a good crop, and the grain large and fine, and cheaper than they have been for several years past.

The weather was less favourable in the South of England; the dry spring was drier and more burning; the barley of two growths, and some did not come up till Midsummer. The wet afterward was also greater, especially in Hampshire, so that their hay and harvest suffered more than ours, and their barley, in particular, coming up late, was late ripe, and was half, or in some places most of it, damaged by the wet. The barley failed also in Norfolk, it not earing well on account of the dry season.

For a good many years past, since the seasons have been in general wet, the nature of East winds has been very different from what it was before. Several years after the great frost in 1740 there were a great many N.E. winds in spring, but they were in general cold and dry, stopping vegetation; but for the last ten years, the East winds have been often very wet; many of the greatest summer floods were by rain out of that quarter, and many times there came rain almost as certainly as the wind turned East.

An experiment of parting fresh-water from salt by freezing.

IN the severe frost last January, some salt-water, being set abroad, froze into an ice which was not solid but porous, the hollows being filled with the saltiest part of the water, for the ice, when drained, was quite fresh.

The salt-water, being again set abroad, froze as before; what remained still unfrozen was now become exceeding salt, but the ice, drained and dissolved, was little if at all brackish. This agrees with what Captain Cook mentions in his late voyage, that in $61^{\circ} 35'$ South latitude they filled their water casks with fresh-water, melted out of ice found floating in the sea. By this experiment, if another time more fully repeated, it may be found to what degree the saltiness of water may be increased, by continuing to freeze away the fresh-water.

May not the knowledge of this be of use to the salt-makers, especially in cold countries? The Sun is strong enough of itself between the Tropics to dry away the sea-water into salt; and, I think, at the salt-works near Lymington, they increase the saltiness of the sea-water by drying it away in the Sun before they boil it into salt. And this seems to be another means of parting fresh-water from the salt, which would save expence in boiling it away, and may be of use in the cold countries, and in winter.